



ওবাং

"CHECKLIST OF THE BIRDS OF ORANG WILD-LIFE SANCTUARY"

(2nd edition, revised and updated with
some additional information)

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উচৰ্গা

DR. PRAFULLA DUTTA GOSWAMI
(1919-1994)
First Assamese Birder

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The proceeds of sale of this booklet will go for the aid
of Forest Guards of Orang (now Rajiv Gandhi) WLS

with regards
to
Chandhyla
29/12/95
KSP

Human settlement always expands, this is a natural law. If such expansion is thwarted, then an immense pressure is generated. This pressure is experienced mainly in the fringes of wild-life protected areas. The authors of this booklet are villians — tough Forest Range Officers enforcing laws in such protected areas — laws that counter the natural law of expansion of human settlement.

The authors feel that the expansion of wild-life protected areas are the ideal counter to the natural expansion of human settlement. This seems an impossibility, as most of the protected wild-life areas are fragmanted islands amidst a mass of human settlements. But in Orang (Rajiv Gandhi Wild-Life Sanctuary) and Kaziranga National Park it is still possible to expand the sanctuary area. The stretch of the mighty Brahmaputra that forms part of the boundary of these two wild-life protected areas must be brought under wild-life management. This is what the authors feel. But who listens to Forest Range Officers, anyway ?

In 1990, the authors Pankaj Sharma and Bhupen N. Talukdar had published a check-list of the birds of the then Orang Wild-Life Sanctuary. The booklet was freely distributed among interested *birders* in Assam and the rest of the country. As the authors have only one copy of the booklet left between the two of them, they felt the need for an updated and enhanced reprint.

We hope that this booklet will make the people of Assam proud of *Orang* and also proud of these two Forest Range Officers for their efforts.

PUBLISHERS

ORANG

GENESIS OF THE SANCTUARY

Archaeological remnants, in the form of medieval inscriptions on stone, give evidence of a Shiva temple proving existence of previous human settlement. Further evidence of former settlements are indicated by the 26 numbers of man-made water-tanks that have been systematically laid out in the sanctuary area. These are sure signs of existence of human settlement in medieval times.

1880-1900 : Core areas of the sanctuary was inhabited. The villages were abandoned due (perhaps) to the black-water fever epidemic.

1915 : Declared Game Reserve. Area : 80.54 sq. km.

Nomenclature '*Orang*' was derived from the nearest revenue village (now the town known as Orang)

Was a Beat Office under Majbat Range, Darrang Division, Tezpur.

1931 : In the northern part of sanctuary 17.29 sq. km. was dereserved for settling immigrants from Mymensingh district of erstwhile East Bengal (now Bangladesh) under what was known as the '*Grow More Food*' scheme. (30th November 1931)

8.73 km of area to the east of Pachnoi river was annexed for plantation.

1931-1941 : Under *Taungya System* Bors Working Plan, plantation was started (failed).

1942-1952 : Softwood species plantation was taken up under Mr. Jacob's plan (*Taungya System*).

1952-1962 : Softwood species plantation continued under Mr. M.M. Islam's plan.

- 1961 : Area was handed over to Afforestation, Mangaldoi Range (Hojai Afforestation Division) in order to continue planting softwood species extensively.
- 1972 : Ban on hunting after 1972. On 1-11-1972 the area was handed over to the Wild-Life Wing and was included as an Auxillary Area for Project Tiger.
- 1985 : 75.60 sq. km. was declared Wild-life Sanctuary on 20th September 1985. 1st Rhino census undertaken.
- 1990 : Only Rhino Sanctuary to achieve zero-rhino poaching in a year.
- 1991 : On 1st February 1991 an area of 3.21 sq. km. was added on the Western side by evicting encroachers on khas (government) land. On 30th March, 2nd Rhino census undertaken.
- 1992 : On 1st October 1992 the sanctuary was renamed Rajiv Gandhi Wild-life Sanctuary.

If those uninitiated to Assam's (Brahmaputra Valley) wilderness wishes to make a brief and rounded acquaintance of it, then the 70 odd sq. km. that comprise Orang is the recommended sample plot they should visit. For a newly recruited Indian forester interested in wild-life, Orang could well be a text book. The land use pattern ranges from grasslands, natural wooded patches, planted forests, river islands and swamp areas. Big game sighting especially rhinos and tigers can be made and birding in this sanctuary is immensely pleasurable.



CHECKLIST OF THE TREES IN ORANG WILD-LIFE SANCTUARY

Trees are listed in the following manner : Common English name and or local name/local name in Assamese script/scientific name/class of timber : A-I to IV, B,C.

PLANTED FOREST PATCH

1. Sisoo চিহ্ন *Dalbergia Sisoo* A-I
2. Silk Cotton Tree, Simolu, শিমলু *Bombax ceiba* A-IV
3. Queens Tree, Aajar, এজাৰ *Lagerstroemia speciosa flos reginae* A-III
4. Jia জীয়া *Lannea grandis* B
5. Poma পমা *Toona ciliata*
6. Bogipoma বগীপমা *Chikrasia tabularis* A-III
7. Khoir খয়ের *Acacia Catechu* A-I
8. Hollock শলখ *Terminalia myriocarpa* A-III
9. White Teak, Gamari, গমাৰি *Gmelina arborea* A-I
10. Khokan খোকন *Daubhanga sonneratiodes* A-III
11. Kadamba Tree, Kadam, কদম *Anthrocephallus Kadamba* A-IV
12. Koroi কৰৈ *Albizzia procera* A-III
13. Lali অমাৰি / লালি *Amoora wallichaii* A-III
14. Teak Segun চেঙন *Tectona grandis* A-I
15. Kuhir কুহিৰ *Bridelia retusa* A-III
16. Sal, Sal শাল *Shorea robusta* A-II

NATURAL FOREST PATCH

1. Silk Cotton Tree, Simolu শিমলু *Bombax ceiba* A-IV
2. Sissoo চিচু *Dalbergia sissoo* A-I
3. Odal ওদাল *Sterculia villosa* B
4. Khoir খয়ের *Acacia catechu* A-I
5. Bhelkar ভেলকৰ *Trewia nudiflora* B
6. Bhelu ভেলেউ *Tetrameles nudiflora* A-IV
7. The Devil's Tree, Satiyana/Saitan চতিয়ানা/চইতান
Alstonia scholaris A-IV
8. Indian Jujube Bogori বগৰি *Ziziphus jujube*
9. Som চোম *Litsaea polyantha*
10. Java Plum tree Jam জাম *Sezizium spp*
11. *Carrya arborea*
12. Machkoita মাচিকতা *Calicarpa arborea*
13. Queen's Tree Aajar এজাৰ *Lagerstroemia speciosa*
A-III
14. Xaura সাওৰা *Streblus asper*
15. *Delinia*, Ou ও *Dillenia indica* A-IV*
16. Amra অমৰা *Spondinis mangifera*
17. The Indian Gooseberry Amlokhi আমলকি *Amblica officinales*
18. Small Fig Tree Dimoru ডিমৰু *Ficus nemularis*
19. Bhatgila ভাতগিলা *Oroxylon indica*
20. Kanchan কাঞ্চন *Bauhina retusa*
21. Jhau ঝাও *Tamarix dioca*



PROMINENT SPECIES OF GRASSES & PLANTS IN ORANG WLS

Non Aquatic Grass

Ekra ইকৰা *Phragmites karka*
 Nal নল *Arundo donax*
 Ulukher উলুখেৰ *Imperata cylindrica*
 Khagori খাগৰী *Saccharum spp.*
 Birina বিৰিণা *E. ravannae*
 Borota Kher বৰতা খেৰ *Saccharum elephantus*
 San Kher চন খেৰ *Polivna ciliata*
 Dubori দুবৰী *Cynodon dactylon*
 Locusa লকুচা *H. compresa*
 Kahuwa কহুয়া *Saccharum spontenum*

Aquatic Grass/Plants

Dal দল *Andropogon Spp*
 Kalmou কলমৌ *Ipomea reptans*
 Helochi হেলচী *Enhydra flushians*
 Barpuni বৰপুনি *Pistia stratiotes*
 Sarupuni সৰুপুনি *Lema paneicostata*
 Bhet ভেট *Nymphia Spp.*
 Padum পদুম *Nelumbo Spp.*
 Water Hyacinth মেতেকা *Meteka Wichhornia*
Species

LAND USE PATTERN

Type	Area	Percentage
Thatch area	9.85 sq. km.	18.8%
Thatch & Ekra	14.27 sq. km.	24.60 %
Ekra & Nal	12.33 sq. km.	16.30%
Sapori area (River island)	9.04 sq. km.	11.95%
Natural forest patch	1.98 sq. km.	2.60%
Planted forest patch	9.83 sq. km.	13.60%
Waterbodies/Swamps	9.53 sq. km.	12.60%

Today except for the Brahmaputra river which theoretically links up Orang with Burachapori and Kaziranga, the sanctuary is totally fragmented and is virtually an island amidst human settlement. Herds of elephants used to enter this area from Arunachal hills via Singri through Gasgarah Unclassed State Forest. Today Gasgarah USF is totally degraded and encroached. Hence no elephant herds are found in Orang. However the sanctuary has a rare distinction of harbouring six lone male wild elephants. These elephants are always a source of anxiety for visitors. Suprisingly Orang has no swamp deer. The swamp deer population was totally annihilated prior to 1972 when license for hunting prevailed. When burning operations were taken up annually (after 1972) bears were said to have fled away. Old records of existence of hispid hare exists but now it is not found. Pigmy Hog was introduced in Orang on 7-6-76 rather unsuccessfully.

Orang however has a very dense population of tiger (25 numbers in 70 sq. km). Second highest population of the great Indian one-horned rhino in the World (97 nos). Third highest concentration of the Bengal florican (45-60 nos) in the world.

CHECKLIST OF ANIMALS

Animals are listed according to the Schedule I, II, III and IV of the Wildlife (Protection) Act. 1972, in the following manner : Common English name, Assamese name in Assamese script, Assamese name in Roman script, scientific name, Red data Book category.

Schedule I

Asian or Indian Elephant হাতী Hati *Elephas maximus*
VULNERABLE

Gangetic Dolphin শিহু Xihu *Platanista gangetica*
VULNERABLE

Indian One horned rhinoceros গড় Garh *Rhinoceros unicornis* ENDANGERED

Indian Pangolin বনবৌ Bon Rau *Manis crassicaudata*
VULNERABLE

Indian Rock Python অজগৰ Ajagar *Python molurus*
bivittatus ENDANGERED

Tiger বাঘ Bagh *Panthera tigris* VULNERABLE

Schedule II

Bengal Porcupine কেতেলা পহ Ketla Phu *Atherurus*
mecrourus assamensis

Common Fox শিয়াল Xial *Vuleps Bengalensis*

Small Indian Civet জহামাল *Viverricula indica*

Jungle Cat বন মেকুৰী Bon Mekuri *Felis chaus*

King Cobra *Ophiophagus hannah*

Otter উদ Ud *Lutra perspicillata*

Rhesus Macaque মলুৱা বান্দৰ *Macaca mullata*

Schedule III

Hog Deer শুগৰী পহ Xagari Pahu *Axis porcinus*

Wild Boar বনৰীয়া গাহৰি Bonoriya Gahori *Sus Scrofa*

Schedule IV

Blacknaped Hare *Lepus nijecollis nigricollis*

Rufous necked Hare *Lepus nigricollis*

Small India, Mongoose নেউল Naywol *Herpeses*
enwardis



RESULTS OF RHINO CENSUSES

Date/Year	Adult			Sub-Adult		Calf		Total	G/Total
	M	F	U/Sexed	M	F	Above 1Yr.	Below 1Yr.		
27-2-85	23	23	—	7	2	1	0	10	65
30-3-91	28	41	5	—	1	14	8	22	97

MORTALITY AMONG RHINOS :

(Total Rhino deads from 1983 to 1994.)

Year	Poaching				Natural	
	Bullet	Pit	Poision	Total	Infighting	Illness
1983	8	-	-	9	4	-
1984	3	2	1	6	1	-
1985	2	6	-	8	-	1
1986	1	2	-	3	-	-
1987	1	-	-	1	-	2
1988	1	2	1	4	-	-
1989	1	1		2	-	1
1990	-	-		Nil	-	-
1991	1	-		1	-	2
1992	1	1		2	3	-
1993	-	1		1	1	
1994	2	2		4	1	-

Checklist of Turtles**EMYDIDAE**

Malayan Box Turtle জাপদুৰা Jap Dura, *Cuora amboinensis*

Eastern Hill Terrapin/Tricarinate Hill Turtle দুৰা
Dura *Melanochelys tricarinata* Sch I

Spotted Black Terrapin/Spotted Pond turtle নল দুৰা
Nal Dura *Geoclemys hamiltoni* Sch I

VULNERABLE

Brown Roofed Turtle *Kachuga smithi*

Indian Roofed Turtle *Kachuga tecta* Sch I

Indian Tent Turtle *Kachuga tentoria tentoria*
(referred as *Kachuga tecta tecta* in Sch I)

TRIONYCHIDAE

Indian Soft Shelled Turtle *Trionyx gangeticus*
(referred as *Lissemys punctata* in Sch I)

VULNERABLE

CHECKLIST OF BIRDS

(Updated from the booklet 'Checklist of the Birds for Orang Wild-life Sanctuary' B.N. Talukdar, P. Sharma, March 1991)

The birds in the following checklist has been arranged according to Family in the following manner : Serial number as in Ripley's 'Synopsis'/Common English name/in parenthesis names that have been modified (Pittie & Robertson June 1993)/local name in Assamese script and Roman script/scientific name/modifications kept in parenthesis (Pittie & Robertson)/Plate number as in 'Pictorial Guide to the Birds of Indian Sub-continent' Ali & Ripley/Status/Red Data Book Category.

PELECANIDAE

Pelicans

21. Spottedbilled Pelican চিকা ভেলা, শগুনা ভেলা
Sika Bhella/Xaguna Bhella *Pelecanus philippensis* (3) RC
20. Rosy/White Pelican পদ্ম ভেলা Paddu Bhela
P. onocrotalus (3) W?

PODICIPEDIDAE

Grebes

5. Dabchick/Little Grebe পানী ডুবি হাঁহ Panidubi
Hahn *Tachybatus raficollis* (1) WC

PHALACROCORACIDAE

Cormorants & Darters

26. Great Cormorant বৰগোলা/দৈকলা Bargola/Doikola
Phalacrocorax carbo (4) RC
27. Indian Shag (Indian Cormorant) কৈলাঙি
Kailangi *P. fuscicollis* (4) RU
28. Little Cormorant পানী কাউৰী Pani Kauri *P. niger*
(4) RC
29. Darter/Snake bird (Oriental Darter) বেজীয়া
গোগ/মনিয়ৰি Bejiagog/ Maniyori *Anhinga rufa*
(4) RC

ARDEIAE

Herons, Egrets & Bitterns

42. Pond Heron/Paddy Bird (Indian Pond Heron)
কানী বগলা/কণা মুচৰি Kani Bogla/Kana musori
Ardeola grayii (4) (7) RC
49. Little Egret ঠুঁতি বগলা Thuti bogla *Egretta garzetta*
(4) (7) RC
47. Smaller Egret (Intermediate Egret) মাজু বগলা
Maju bogla *E. intermedia* (7) RC
46. Large Egret (Great Egret) বৰ বগ/যাইঠা বগলা
Barbog/Jaitha Bogla *Ardea alba* (7) RC
44. Cattle Egret গোবগলা Gobogla *Bubulcus ibis* (7) RC
36. Grey Heron হালখেদা/বগা চেচা Halkheda/Boga
sesa *Ardea purpurea* (6) RC
37. Purple Heron আজান Aajjan *Ardea cinerea* (6) RC
56. Chestnut Bittern (Cinnamon Bittern) ইটাঙড়ি
Itaguri *Ixobrychus cinnamomeus* (6) SU
58. Black Bittern নীল বগুলা Nilbogla *Dupetor*
flavicollis (6) SU
52. Night Heron (Black Crowned Night Heron)
ৰাতিচৰা Ratisora *Nycticorax nycticorax* (4, 6)
RU

CICONIIDAE

Storks

67. Greater Adjutant Stork বৰটোকোলা/ধদং
Bartokola/Dhodong *Leptopilus dubius* (8) RC
Endangered
68. Lesser Adjutant Stork হাড়গিলা Hargilla
L. javanicus (8) RC Endangered
66. Blacknecked Stork তেলীয়া সাৰেং/বাই শাক্কা Telia
Xareng/Rai Xalka *Ephippiorhynchus*
asiaticus (8) RC

কনুৱা — কলি হাঁহ

62. Whitenecked Stork (Woolynecked Stork) কনুৱা
Konua *Ciconia episcopus* (8) RU

61. Openbill Stork (Asian Openbill) শামুক
ভঙা/শামুক খোলা Xamukbhanga/Xamuk-khula
Anastomus oscitans (8) RU

ANATIDAE

Ducks, Geese & Swans

90. Ruddy Shelduck/Brahminy Duck ৰাম কং/চাকৈ
চকোৱা Ramkong/Sakoi Sokuwa *Tadorna
ferruginea* (11, 13) WC
100. Mallard ডেল গাজ Telgaj *Anas platyrhynchos* (9,
10) WC
105. Shoveller (Northern Shoveller) খন্তি
খুঁটীয়া/খাইটা হাঁহ Khanti Thutia/Khainta
Hahn *A. clypeata* (9, 10) WC
93. Pintail Duck (Northern Pintail) লেজাল হাঁহ
Lezal Hahn *A. acuta* (9, 10) WC
94. Common Teal/Green winged Teal বিট্টা হাঁহ/চক
বিট্টা হাঁহ Bitla Hahn/Sak Bitla Hahn *A. crecca*
(9, 10) WC
89. Large Whistling Teal (Fulvous Whistling
Teal) গোধা শাল্লি Godha Xalli *Dendrocygna
bicolor* (11, 13) Vulnerable
88. Lesser Whistling Teal/Lesser Tree Duck পাউতা
শাল্লি Pauta Xalli *Dendrocygna javanica* (11,
13) RC
97. Spotbill Duck/Grey Duck (Spotbilled Duck)
খাদা হাঁহ/কৈঠা খুন্দা Khada Hahn/Koitha
Khunda *Anas poecilorhyncha* (9, 10) WC
109. White-eyed Pochard/Ferruginous Duck
(Ferruginous Pochard) কলি হাঁহ Kolee Hahn
Aythya fuligula (11, 13) WC

108. Common Pochard গোধাকলী হাঁহ Godhakoli
Hahn *A. ferina* (11, 13) WC
103. Wigeon (Eurasian Wigeon) খেৰী হাঁহ Kheri
Hahn *Anas penelope* (9, 10) WC
101. Gadwall মুগী হাঁহ Mugi Hahn *A. strepera* (9, 10)
WC
104. Garganey বগা কাঁচি Boga kasi *A. querquedula* (9,
10) WC
111. Tufted Duck/Tufted Pochard বামুণী হাঁহ/টিকনি হাঁহ
Bamuni Hahn/Tikoni Hahn *Aythya fuligula*
WC
102. Falcated Teal *Anas Falcata* WU
114. Cotton Teal/Indian Cotton Teal/Quacky Duck
(Cotton Pigmy Goose) নাক খেচখেচী/ঘিলা হাঁহ
Nak-khesh-khesi/Ghila Hahn *Netapus*
coromandelianus (11, 13) WU
82. Bar-headed Goose ধিতৰাজ/দুৰৰিচিঙা হাঁহ Dhitaraj/
Dubori Singa Hahn *Anser indicus* (12)W?
81. Greylag Goose ৰাজহাঁহ Rajhahn *Anser anser* (12)
WC

ACCIPITRIDE

Hawks, Vultures etc.

178. King Vulture (Redheaded Vulture) ৰজা
শগুন/তামুলি শগুন Raja Xagun/Tamuli Xagun
Sarcogyps calvus (16, 17, 18) R ?
185. Bengal Vulture/Whitebacked Vulture
(Whiterumped Vulture) শগুন Xagun *Gyps*
bengalensis (16, 17, 18)) RC
133. Pariah Kite (Black Kite) চিলনী/মাইতা চিলা
Silani/Maita Sila *Milvus migrans govinda*
(14, 15, 17) RC
135. Brahminy Kite গোধা চিলনী Godha Silani
Haliastur indus (14, 17, 25) RC

174. Pallas's Fishing Eagle/Ringtailed Fishing Eagle (Pallas's Sea Eagle) কুৰা/কুৰুৱা Kura/Kuruwa *Haliaeetus leucoryphus* (14, 15) RC
192. Pied Harrier পখৰা শেন Pokhra Xan *Circus melanoleucus* (14, 19) W
193. Marsh Harrier ডোৰা শেন Duba Xan *C. aeruginosus* (14, 19) RC
130. Honey Buzzard (Oriental Honey Buzzard) মৌসাপ Mou-khap *Pernis pttorhyncus* (24, 25) RC
196. Crested Serpent Eagle সাপকটা Sapkata *Spilornis Cheela* (20, 21, 28) RC
175. Greyheaded Fishing Eagle (Greyheaded Fish Eagle) বৰ-কুৰা Bar-kura *Ichthyophaga ichthyaetus* (14, 15) RC
148. Sparrow-Hawk (Eurasian Sparrowhawk) ৰাজ Baj *Accipter nisusmelaschictos* (22, 23) RC
203. Osprey চিলকুৰুৱা, শালখোৱা *Pandion haliaetus* (14, 21) RU Vulnerable

PHASIANIDAE

Pheasants/Partridges & Quails

247. Swamp Partridge (Swamp Francolin) কৈৰা/হয়কলি Koira/Haikoli *Francolinus gularis* (31) RC

RALLIDAE

Rails, Coots

350. Coot নলডেকৰ/বিলাতী ডেকৰ Naldhekar/Bilati Dhekar *Fulica atra* (36) WU
327. Water Rail *Rallus aquaticus* (36) WU
343. Whitebreasted Water Hen ডাউক Dauk *Amaurnis phoenicurus* (36) RC

346. Water Cock কৰা Kora *Gallicrex cinerea* (36) RU
 247. Moorhen/Indian Moorhen (Common Moorhen)
 ঢেকৰ Dhekar *Gallinula Chloropus* (36) RC
 349. Purple Moorhen (Purple Swamp hen)
 কায়েম/কাম- চৰাই Kayem/Kam Sorai *Porphyrio porphyrio* (36) RC

OTIDIDAE

Bustards

256. Bengal Florican উলু মৈৰা/উলু ম'ৰা
 Ulumoirra/Ulumora *Eupodotis bangalensis* (37)
 RU Endangered

JACANIDAE

Jacanas

259. Bronzewinged Jacana দলপুঙা/কাইঠাৰা
 Dalpunga/Kaithara *Metopidius indicus* (36)
 RC
 258. Pheasant-tailed Jacana দলমৈৰা/দলম'ৰা, মেওঁৱা
 Dalmoira/Dalmora, Meuwa *Hydrophoasianus chirurgus* (36) ?

BURHINDIAE

Stone Curlews, Thick Knees

436. Stone Curlew (Eurasian Thick-knee) *Burhinus oedicephalus* (39, 42) WO

CHARADRIIDAE

Plovers

366. Red-wattled Lapwing বালিঘোঁৰা/টিটিহোত
 Balighora/Hotitihot/Titihot *Vanellus indicus indicus* (38, 39) RC
 370. Yellow-wattled Lapwing *Vanellus malabaricus*
 (38) ?

364. Lapwing/Northern Lapwing *V. vanellus* (38, 39) WU
369. Spurwinged Lapwing (River Lapwing) কাঁচিয়লি Kosioli *V. duvaucelii* WU
365. Greyheaded Lapwing কপাল ফটলা Kopal Fatla *V. cinereus* (38, 39) WC
380. Little Ringed Plover *Charadrius dubius* (40,41) WU
381. Kentish Plover *C. alexandrinus* (40,41) WU

SCOLOPACIDAE

Sandpipers

401. Common Sandpiper বরচিনেক, জিপ Bareneks Jeep *Tringa stagnatites* (43, 44) WC
395. Marsh Sandpiper জিপ Jeep *T. stagnatitidis* (43) WC
398. Wood Sandpiper *T. glareola* (43, 44) WA
416. Little Stint *Calidris minuta* (40, 41) WC
393. Red Shank (Common Redshank) *Tringa totanus* (43, 44)
396. Green Shank (Common Greenshank) *T. nebularis* (43, 44)

LARIDAE

Gulls, Terns

454. Brownheaded Gull বাম পাৰ Ram Paro *Larus brunnicapillus* (45) WC
463. Indian River Tern (River Tern) গঙ্গা চিলনী Ganga Silani *Sterna aurantia* (46) WC

RECURVIROSTRADAE

Stilts & Avocets

432. Avocet (Pied Avocet) *Recurvirostra avosetta* (39, 42) WO

COLUMBIDAE

Pigeons, Doves

503. Common Green Pigeon (Yellow footed green Pigeon) হাইঠা/হাইতাল Haitha/Haittal *Treron phoenicoptera* (49) RC
542. Emerald/Bronzewinged Dove নীল কপ্তি Nil Kopti *Chalcophaps indica* (49) RC
537. Spotted Dove পাইতা কপ্তি, ফুটুকী কপৌ Paita Kopti, Futuki Kapau, *Streptopelia chinensis* (49) RC
534. Collared Turtle/Indian Ring Dove (Eurasian Collared Dove) হাউবা কপ্তি Haura Kapti *S. deeaocro* (49) RC
535. Red Turtle Dove (Red Collared Dove) শিল কপ্তি Xil Kapti *S. trangnebarica* (49) RC
541. Little Brown/Senegal Dove (Laughing Dove) বাম কপ্তি Ram Kapti *S. senegaleusis* (49) RO

PSITTACIDAE

Parrots

550. Rose ringed Parakeet টিয়া Tiya *Psittacula krameri* (50) RC

CUCULIDAE

573. Common Hawkuckoo/Brainfever Bird বৌ কাকা ক'ত Bou-kaka-kot/Keteki *Cuculus varius* (51) RU
590. Koel (Asian Koel) কুলি Kuli *Eudynamys scolopacea* (71) RC
600. Crow Pheasant/Coucal (Greater Coucal) বাহ কুকু/কুকুহা Bah Kuka/Kukuha *Centropus sinensis* (52) RC
595. Little Greenbilled Malkoha (Bluefaced Malkoha) *Rhopodytes tristis* (52)

STRIGIDAE

Owls

STRIGINAE

True Owls

652. Spotted Owlet কাল ফেঁচা/নিয়তি Kal Fesa/Niyoti
Athene brana (54) RC
636. Jungle Owlet ফেঁচা Fesa *Glaucidium radiatum* (54)
RU
427. Eagle Owl/Great Horned Owl (Rock-eagle
Owl) হুদু Hudu *Bubo bubo* (53) RC

TYTONINAE

Barn Owls

606. Barn Owl লক্ষী ফেঁচা Lakhi Fesa *Tyto alba* (54) RC

CAPRIMULGIDAE

Nightjars, Goat Suckers

680. Common Indian Nightjar (Indian Nightjar)
দিনকণা Dinkona *Caprimulgus asiaticus* (55) RC

APODIDAE

Swifts

707. Palm Swift (Asian Palm Swift) বতাহী Batahi
Cypsiurn parvus (*Cypsiurus balasiensis*) (56)
RC

ALCEDINIDAE

Kingfishers

717. Himalayan Pied Kingfisher (Crested
Kingfisher) বৰ মাছৰোকা Bar Masroka *Ceryle*
lugubris (*Megacenele lugubris*) (58) RU
719. Lesser Pied Kingfisher (Pied kingfisher)
মাছৰোকা Masroka *C. rudis* (58) RC
722. Small Blue/Common Kingfisher টিপটি হনুমান
Tipsi Hanuman *Alcedo atthis* (58) RC

721. Great Blue/Blyth's Kingfisher মাজু হনুমান Maju
Hanuman *Alcedo hercules* (58) RU

730. Storkbilled Kingfisher/Brownheaded
Storkbilled Kingfisher বৰ হনুমান Bar
Hanuman *Pelargopsis capensis* (58) RO

735. Whitebreasted Kingfisher (White-throated
kingfisher) হনুমান Hanuman *Halcyon
smyrnesis* (58) RC

UPUPIDAE

Hoopoe

763. Hoopoe (Eurasian Hoopoe) ফণি কতৰা/গোবৰ
খোঁচৰা Phanikatarā/Gobar Khosora *Upupa
epops* (58) RC

CORACIIDAE

Rollers

755. Indian Roller/Blue Jay সেং কাউৰ/কাওচা Xet
Kaur/Kausa *Coracias bengalensis* (57) RC

MEROPIDAE

Bee-eaters

750. (Green Bee-eater) Little Green Bee-eater মৌ
খোৰা Mou Khowa *Merops orientalis* (58) RC

748. Bluetailed Bee-eater জিয়াখাতী Jia Khaty *M.
philippinus* (57) RC

744. Chestnuttheaded Bee-eater উই ভুৰুকা Ui
Bhuruka *M. leschenaultii* (57) RC

MEGALAIMIDAE

Asian Barbets

778. Himalayan Barbet (Great Hill Barbet)
(Great Barbet) যম ডাকিনী Jom dakinee
Megalaima virens (60) ?

হেটুলুকা — সখিয়তি

782. Green Barbet (Brownheaded Barbet) হেটুলুকা
Hetuluka *M. zeylanica* (60) RC
788. Bluethroated Barbet *M. asiatica* (60) RC
792. Coppersmith/Crimsonbreasted Barbet
(Copersmith Barbet) তগৰ Tagar *M.*
haemacephala (60) RC

PICIDAE

Woodpeckers

819. Lesser Goldenbacked Woodpecker
কাঠখোলা/বাঁড়ৈটোকা Kathkhula/Barhoitoka
Dinopium benghalense (60) RC
847. Mahratta Woopecker/Yellowfronted Pied
Woodpecker(Yellowcrowned
Woodpecker) ফুইতা কাঠখোলা Fuita
Kathkhula *Dendrocopos mahrattensis* (61)
RC

HIRUNDINIDAE

Swallows

923. Striated Swallow (Redrumped Swallow)
তেলটুপি Teltupi *Hirundo daurica* (65) RC
916. Common Swallow (Barn Swallow) তেলটুপি
Teltupi *Hirundo rustica* (58) RC

CANIIDAE

Shrike

946. Rufous backed Shrike (Longtailed Shrike)
Lanius schach (94) RC
949. Brown Shrike *L. cristatus* (94) RC

ORIOOLIDAE

Orioles

958. Blackheaded Oriole (Blackhooded Oriole)
পাটমাদৈ/সখিয়তি Patmadoi/Xakhioti *Oriolus*
xanthornus (63) RC

DICRURIDAE

Drongos

963. Black-Drongo/King Crow ফেচু/ফেহু Fesu/Fehu
Dicrurus adsimilis (Dicrurus macrocercus)
(69) RC
970. Crowbilled Drongo *D. annectans* (69) RC
971. Bronzed Drongo মটীয়া ফেচু Matia Fesu *D. aeneus*
(69) RC
973. Haircrested Drongo/Spangled Drongo বাবরি
ফেচু/টিকি ফেচু Babri/Tikki Fesu *Dicrurus*
hottentottus (69) RC
977. Greater Racket-tailed Drongo ভীমরাজ Bhimraj
D. paradiseus (69) RU
972. Lesser Racket-tailed Drongo *D. remifer* (69)
RV
967. Whitebellied Drongo *D. caerulescens* (69) RU

ARTAMIDAE

Swallow-shrike

982. Ashy Swallow-Shrike (Ashy Wood
Swallow) আম চোকা Am Choka *Artamus*
fuscus (65) RC

STURNIDAE

Starlings, Mynas

1006. Common Myna/Indian Myna শালিকা/শালকা Ghar
Xalika/Xalka *Acridotheres tristis* (96) RC
1002. Pied-Myna (Asian Pied Starling) গরিয়া
শালকা/কান কুইল্লা Goira Xalka/Kankuilla
Sturnus contra (96) RC
1008. Bank Myna গাত শালকা/মাটি শালিকা Gat
Xalka/Mati Xalika *Acridotheres ginginianus*
(96) RU

987. Greyheaded Myna (Chestnut-tailed Starling)
কাঠ শালিকা Kath Xalika *Sturnus malabaricus*
(96) RC
1009. Jungle Myna মাকু শালিকা/চুতিয়া শালিকা Maku
Salka/Suita Salka *Acridotheres fuscus* (96)
RC
994. Brahminy Myna/Blackheaded Myna
(Brahminy Starling) বাপু শালিকা Bapu
Xalika *Sturnus pagodarum* (96) RU
1015. Hill Myna/Grackle Myna মইনা Moina *Gracula religiosa* (96) O

CORVIDAE

Crows & Magpies

1032. Indian Tree Pie (Rufous Treepie) চেকচেকী Sek
cheika *Dendrocitta vagabunda* (70) RC
1049. House Crow কাউৰ/পাতিকাউৰ Kaur/Patikaur
Corvus splendens (71) RC
1054. Jungle Crow (Largebilled Crow) ধূৰা কাউৰ
Dhura Kaur *Corvus macrorhynchos* (71) RC

CAMPEPHAGIDAE

Cuckoos Shrikes & Minivets

1070. Common Wood Shrike শালিকা/শালকা
Xalika/Xalka *Tephrodornis pondicerianus*
(66) RC
1093. Small Minivet ৰূপহী Rupahi *Pericrocotus cinnamomeus* (66) RU
1081. Scarlet Minivet বৰ ৰূপহী Bor Rupahi *P. flammeus*
(66) RU

IRENIDAE

Fairy Bluebirds, loras & Leaf Birds

1108. Jerdons Leaf bird/Goldmantled Leaf bird
(Bluewinged Leafbird) *Chloropsis cochinchinensis* (67) RC

1103. Goldfronted Leafbird/Green Bubul
(Goldenfronted Leafbird) *C. aurifrons* (67)
RC

1098. Common lora নিখৌ/কৃষ্ণ Nee-tho/Kri-shna
Aegithina tiphia (67) RC

PYCONOTIDAE

Bulbuls

1128. Redvented Bulbul কটিৰঙা/বুলবুলি
Katiranga/Bulbuli *Pycnonotus cafer* (67) RC
1120. Redwhiskered Bulbul গালৰঙা বুলবুল Galranga
Bulbul *P. jocosus* (67) RC
1125. Whitecheeked Bulbul (Himalayan Bulbul) *P.*
leucogenys (67) ?
1148. Black Bulbul *Hypsipetes madagascariensis* (67)
RC

MUSCICAPIDAE

Babblers, Flycatchers Warblers, Thrushes & Chats

1390. Quaker Babbler (Browncheeked Fulvetta)
Alcippe poioicephala (79)
1259. Rufous bellied Babbler (Rufous Babbler)
Dumetia hyperythra (74)
1265. Jungle Babbler সাতভায়া Xatbhaiya *Turdoides*
striatus (79)
1154. Spotted Babbler (Puffthroated Babbler)
Pellorneum ruficeps (75) RC
1231. Yelloweyed Babbler *Chrysomma sinense* (79)
RU
1274. Whitethroated Laughing-Thrush *Garrulax*
albogularis (77) RU

ADDENDA

EMBERIZIDAE

Buntings

2044. Redheaded Bunting *Emberiza-bruniceps* (103)
RC

ADDENDA

38. Little Green Heron *Butorides striatus*
160. Changeable Hawk-Eagle *Spizaetus cirrhatus*
163. Booted Hawk-Eagle *Hieraaetus pennatus*
139. Black Partridge *Francolinus francolinus*
316. Northern Bustard-Quail (Lao Bota) *Turnix
suscicator*
368. Burmese Redwattled Lapwing (Balighura)
Vanellus indicus atronuchalis
532. Rufous Turtle-Dove (Bor Kopou) *Streptopelia
orientalis*
545. Alexandrine Parakeet (Tiya) *Psittacula eupatria*
551. Redbreasted Parakeet (Pura Bhatou) *Psittacula
alexandri*
557. Blossomheaded Parakeet (Xenduri Tiya)
Psittacula cyanocephala
576. Indian Cuckoo (Keteki) *Cuculus micropterus*
605. Lesser Coucal (Kuli Kukuha) *Centropus toulou*
594. Large Greenbilled Malkoha (Bamura) *Rhopodytes
tristis*
641. Barred Owlet (Phesa) *Glaucidium cuculoides*
630. Dusky Horned Owl *Bubo coromandus*
753. Bluebearded Bee-eater *Nyctyornis arthertoni*
784. Lineated Barbet (Bor Hetuluka) *Medgalaima
lineata*
845. Fulvousbreasted Pied Woodpecker *Picoides macei*
873. Bush Lark *Mirafra assamica*
907. Eastern Small Skylark (Bota Sorai) *Alauda
gulgula*
912. Plain Sand Martin (Satok) *Riparia paludicola*

ADDENDA & Further Information

- 911. Collared Sand Martin (Satok) *Riparia riparia*
- 918. Tytler's or Chestnutbellied Swallow *Hirundo rustica tytleri*
- 945. Greybacked Shrike (Era Sorai) *Lanius tephronotus*
- 1072. Large Cuckoo-shrike (Elehua Sorai) *Coracina novaehollandiae*
- 1256. Striated Babbler *Turdoides earlei*
- 1498. Streaked Fantail Warbler *Cisticola juncidis*
- 1534. Large Grass Warbler *Grammnicola bengalensis*
- 1516. Ashy Wren-warbler *Prinia socialis*
- 1502. Franklin's Wren-warbler *Prinia hodgsonii*
- 1512. Plain Wren-warbler *Prinia subflava*
- 1506. Rufousfronted Wren-warbler *Prinia buchnani*
- 1525. Yellowbellied Wren-warbler *Prinia flaviventris*
- 1906. Rubycheek *Anthreptes singalensis*
- 1960. a. Finn's Baya *Ploceus megarhynchos*
- 1961. Blackthroated Weaver *Ploceus benghalensis*
- 1938. House Sparrow (Ghorsirika) *Passer domesticus*
- 1942. Tree Sparrow (Bonsirika) *Passer montanus*

The above addenda is based on sightings made between 17th–19th May 1995 by V. Menon, Sujan Chatterjee & Maan Barua.

FURTHER INFORMATION

The following list informs of those Birds spotted by Manideep Raj and not recorded in the above checklist and addenda. Survey was made by Raj during 1988 & 1989. (See 'Birding in Orang Wildlife Sanctuary (OWLS)' Manideep Raj, *Journal of the Ecological Society* Vol. 6 Pg. 41–46 P. Gole ed. Pune).

- 65. Black Stork (Kal Xor') *Ciconia nigra* R,O
- 110. Baer's Pochard *Aythya baeri* M,O
- 189. Hen Harrier *Circus cyaneus* Un,O

Further Information/Names of Water bodies

140. Shikra (Xen) *Accipiter badius* Un,O
182. Longbilled vulture (Xogoon) *Gyps indicus* R,C
404. Solitary Snipe (Sereka Sorai) *Gallinago solitaria*
LM,C
585. Rufousbellied Plaintive Cuckoo *Cacomantis*
merulinus R,C
631. Brown Fish Owl (Hudu) *Bubo zeylonensis* R,O
706. House Swift (Teltupi) *Apus affinis* R,A
789. Blue-eared Barbet *Megalaima australis* R,O

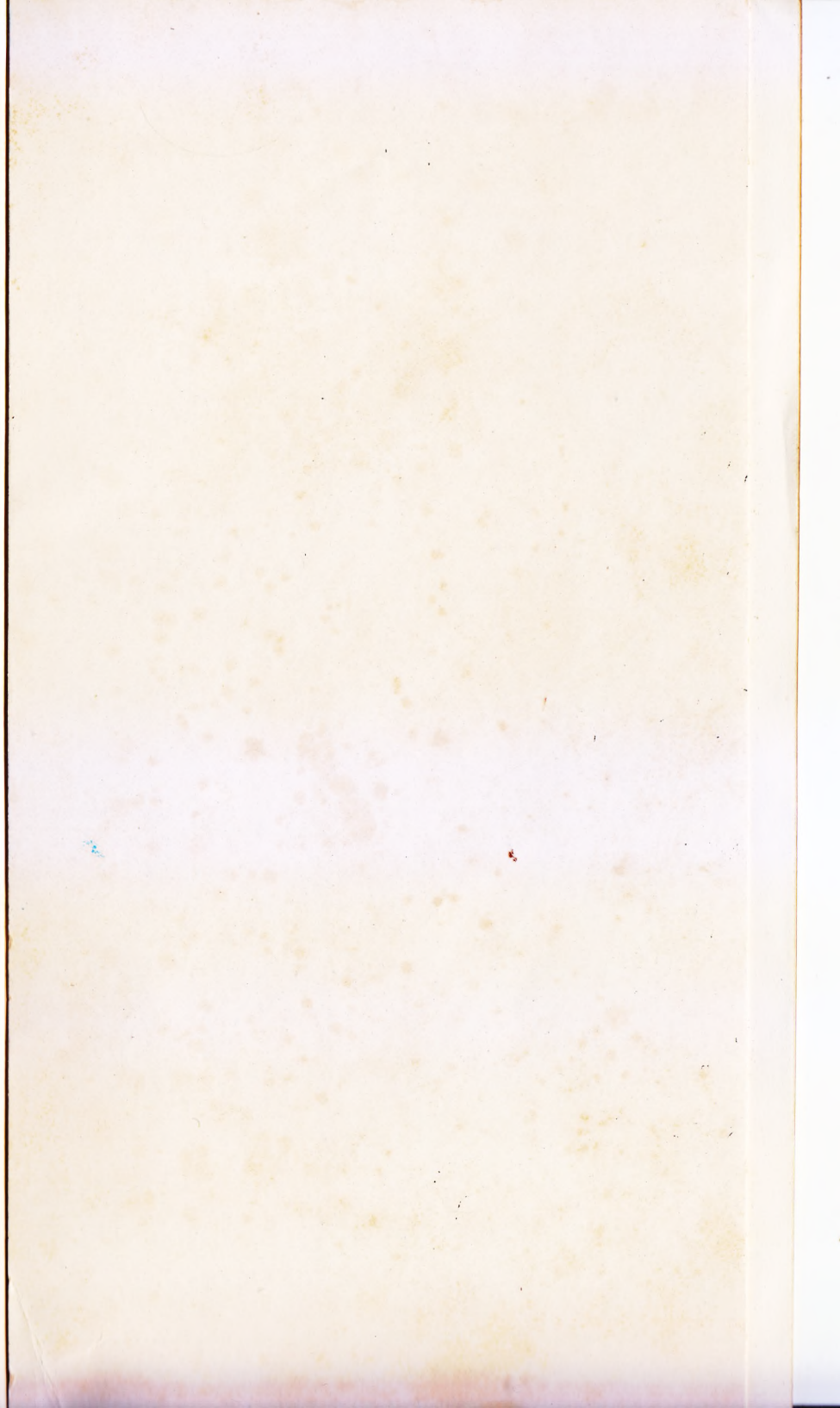
Names of Beels and Waterbodies in Orang Wild-life Sanctuary

(See Map overleaf)

- | | |
|---------------------|--------------------------------------|
| 1. Rowmari beel | 8. Sewaratoli |
| 2. Khalihamari beel | 9. Tinkuna |
| 3. Siloni beel | 10. Bagurmari |
| 4. Thotasimolu | 11. Pachnoi-mukh |
| 5. Saila | 12. Borbeel |
| 6. Digheli | <i>Channels of Brahmaputra &</i> |
| 7. Satsimolu beel | <i>26 nos of ponds</i> |

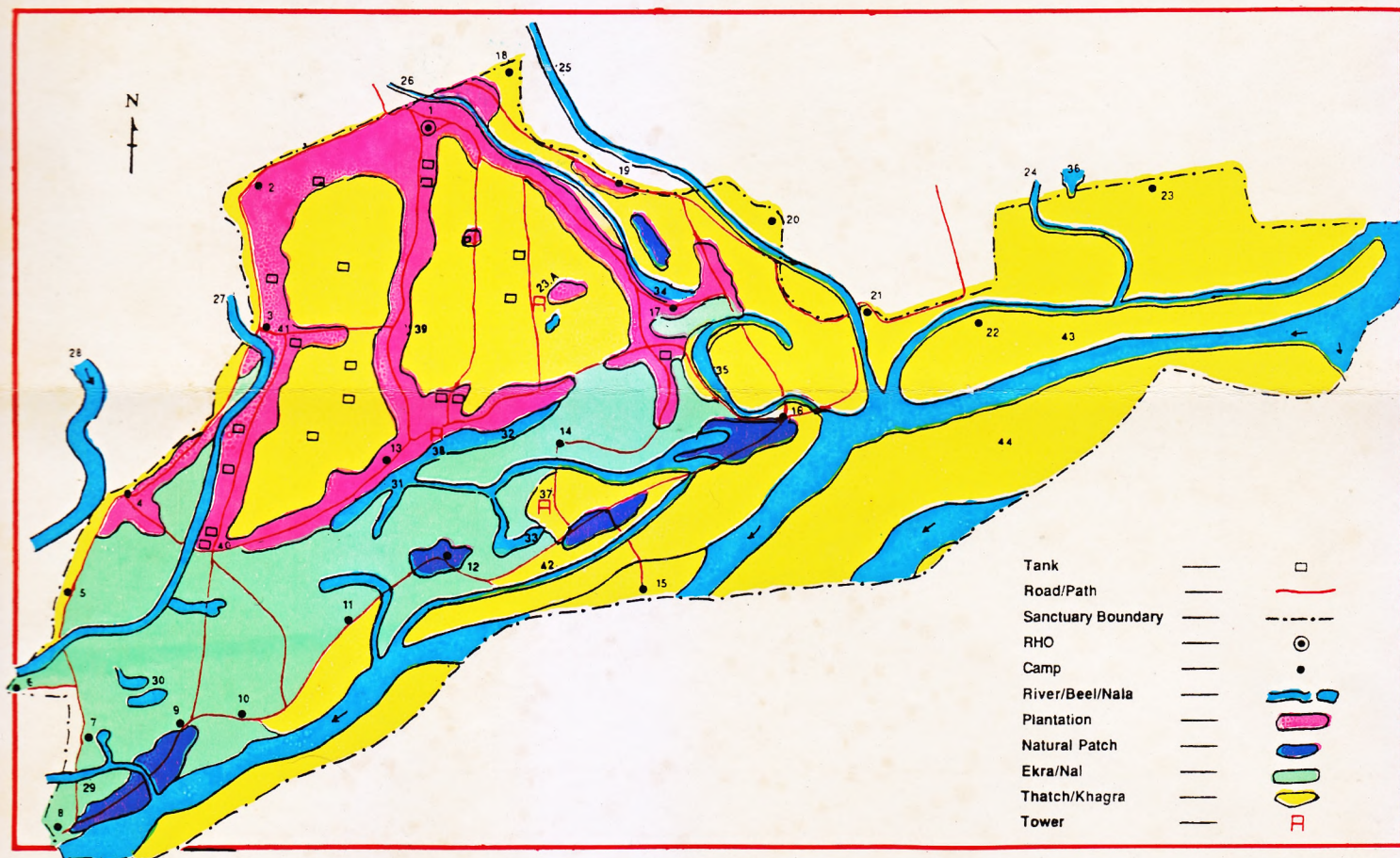
HERONRY

1. **Heron City** so named because it is the breeding site of birds of the Ardeidae and Phalacrocoracidae families. Breeding takes place between the months of May to July. More than 12 species of these two families identified. Population around 4000.
2. **Bhela-jar** breeding site of spotbilled Pelicans and Adjutant storks.



ORANG WL. SANCTUARY

(NOT TO SCALE)



- | | | | | | | | |
|---------------------|--------------------|-----------------|------------------------|-------------------|-------------------|-----------------|----------------------|
| 1. RANGE H.Q. | 2. BEJIMARI | 3. RANGAGARAH | 4. OLD ORANG | 5. KACHAMARI | 6. CHANDANPUR | 7. KATASALI | 8. HAZARBIGHA |
| 9. GASPARA | 10. BARKHETAPU | 11. TINCHONA | 12. BANTAPU | 13. SATSIMOLU | 14. AMULYA | 15. RAMKONG | 16. NICHOLAMARI |
| 17. ROUMARI | 18. PACHNOI HALF | 19. PACHNOI-I | 20. PACHNOI-II | 21. PACHNOI-III | 22. RAMDAS | 23. BELSIRI | 23.A MAGURMARI TOWER |
| 24. BELSIRI RIVER | 25. PACHNOI RIVER | 26. GHAGRA NALA | 27. MORA DHANSIRI RIV. | 28. DHANSIRI RIV. | 29. KATASALI BEEL | 30. GAIMARI B | |
| 31. SEURATOLI BEEL | 32. SATSIMOLU BEEL | 33. CHAILA BEEL | 34. ROUMARI BEEL | 35. OOGLI BEEL | 36. GHITTING BEEL | 37. SARU TOWER | |
| 38. SATSIMOLU TOWER | 39. BHELAJHAR | 40. SINGBHETI | 41. RAHMANPUR | 42. DIGHELI BEEL | 43. RAMDAS TAPU | 44. PANCHU TAPU | |



APPENDICES - I & II

APPENDIX - I

RED DATA BOOK CATEGORIES

EXTINCT (Ex)

A taxon is Extinct when there is no reasonable doubt that the last individual has died.

CRITICAL (CR)

A taxon is Critical when it is facing an extremely high probability of extinction in the wild in the immediate future. A taxon is defined as Critical by any of the following criteria (A to E).

- A. Population estimated to number less than 50 mature individuals.
- B. Population estimated to number less than 250 mature individuals and to have both of the following characteristics.
 1. Population structure in the form of either of the following :
 - (a) severely fragmented i.e. no sub-population is known or estimated to contain more than 50 mature individuals,
 - (b) found only at a single location.
 2. Continuing decline, observed, inferred or projected in either of the following (a) number of mature individuals (b) area, extent, and/or quality of habitat.
- C. Geographic extent estimated to be less than 100 km^2 or range area estimated to be less than 10 km^2 and estimates indicating any two of the following :
 1. Severely fragmented or found only at a single location.
 2. Continuing decline, observed, inferred or projected, in any of the following :
 - (a) geographic extent; (b) range area; (c) number of locations.
- D. Decline in population in the form of either of the following :
 1. An observed precipitous and continuing decline in the number of mature individuals (typical more than 25% per year over 5 years).

CATEGORY : ENDANGERED

2. A continuing decline as specified in D1 inferred or projected from any of the following (a) a decline in area, extent and/or quality of habitat, (b) levels of exploitation; (c) the effects of introduced species, pathogens, competitors, or parasites.
- E. Quantitative analysis showing the probability of extinction in the wild is at least 50% within 5 years or 2 generations, whichever is longer.

ENDANGERED (EN)

A taxon is Endangered when it is not Critical but is facing a very high probability of extinction in the wild in the near future. A taxon is defined as Endangered by any of the following criteria (A to E)

- A. Population estimated to number less than 250 mature individuals.
- B. Population estimated to number less than 2,500 mature individuals and to have both of the following characteristics:
 1. Population structure in the form of either of the following :
 - (a) severely fragmented i.e. no sub-population is known or estimated to contain more than 250 mature individuals; (b) found only at a single location.
 2. Continuing decline, observed, inferred or projected, in either of the following :
 - (a) number of mature individuals; (b) area, extent, and/or quality of habitat.
- C. Geographic extent estimated to be less than 5,000 km² or range area estimated to be less than 500 km² and estimates indicating any two of the following :
 1. Severely fragmented or found only at no more than two locations.
 2. Continuing decline, inferred, observed or projected, in any of the following :
 - (a) geographic extent; (b) range area; (c) area, extent, and/or quality of habitat; (d) number of locations; (e) number of mature individuals.
 3. Extreme fluctuations in any of the following :
 - (a) geographic extent; (b) range area; (c) number of location.

D. Decline in population in the form of either of the following :

1. An observed marked and continuing decline in the number of mature individuals (typically more than 50% in total within 5 years or 2 generations, whichever is longer).
2. A continuing decline as specified in D1 inferred or projected from any of the following :
 - (a) a decline in area, extent and/or quality of habitat;
 - (b) levels of exploitation; (c) the effects of introduced species, pathogens, competitors or parasites.

E. Quantitative analysis showing the probability of extinction in the wild is at least 20% within 20 years or 5 generations whichever is longer.

VULNERABLE (VU)

A taxon is Vulnerable when it is not Critical or Endangered but is facing a high probability of extinction in the wild in the medium-term future. The taxon is defined as Vulnerable by any of the following criteria (A to E).

- A. Population estimated to number less than 1,000 mature individuals.
- B. Population estimated to number less than 10,000 mature individuals and to have both of the following characteristics.
 1. Population structure in the form of either of the following : (a) severely fragmented i.e. no sub-population is known or estimated to contain more than 1000 mature individuals (b) found only at a single location.
 2. Continuing decline, observed, inferred or projected, in either of the following (a) number of mature individuals (b) area, extent and/or quality of habitat.
- C. Geographic extent estimated to be less than 20,000 km² or range area estimated to be less than 2,000 km² and estimates indicating any two of the following :
 1. Severely fragmented or found at no more than five locations.
 2. Continuing decline, inferred, observed or projected, in any of the following :
 - (a) geographic extent; (b) range area; (c) area, extent,

APPENDIX - II

39. Greycrowned Prinia *Prinia cinereocapilla*
40. Bristled Grass-warbler *Chaetornis striatus*
41. Beautiful Nuthatch *Sitta formosa*
42. Jerdon's Babbler *Chrysomma altiloquax*
43. Brown capped Laughing-Thrush *Garrulax austeni*
44. Black-browed Parrot-bill *Paradoxornis*
atrosuperciliaris
45. Rufous-vented Prinia *Prinia burnesii*

ADDITIONAL SPECIES

1. Blacknecked Stork *Ephippiorhynchus*
asiaticus
2. Black Stork *Ciconia nigra*
3. Large whistling Teal *Dendrocygna bicolor*
4. Oriental Hobby *Falco veverus*
5. Blackcrested Baza *Aviceda jerdoni*
6. Lesser Spotted Eagle *Aquila pomarina*
7. Ibisbill *Ibidorhyncha*
struthersii
8. Peacock Pheasant *Polyplectron*
bicalcaratum
9. Bay Owl *Phodilus badius*
10. Brown Needle Tail
(Brown-backed Needle Tail ?) *Hirundapus*
giganteus(?)
11. Rufous necked Laughing Thrush
Garrulax cinereifrons -

* Found in Orang WLS

Informations on the above mentioned birds may kindly be sent to :

Dr. P.C. Bhattacharjee

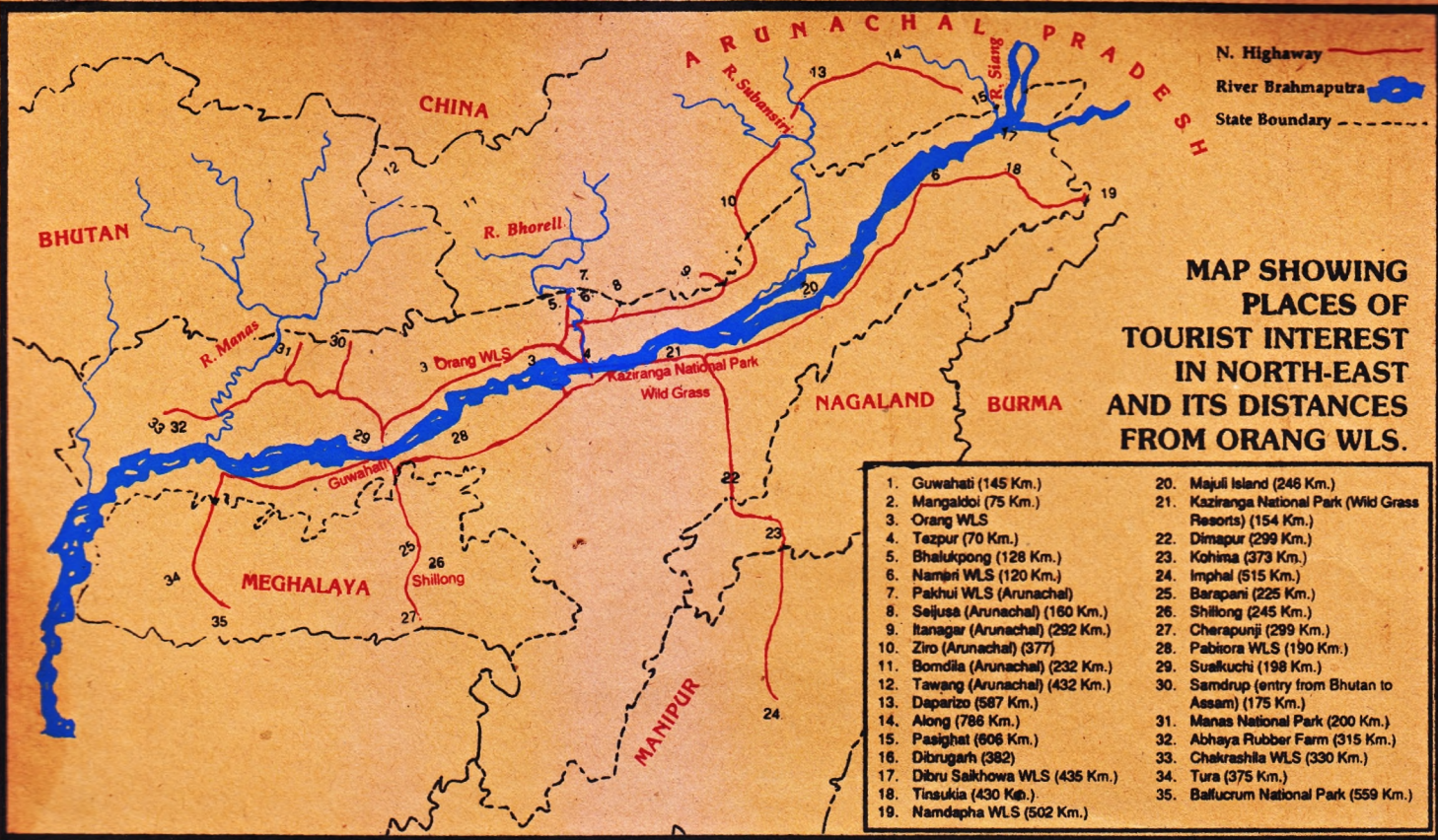
Dept. of Zoology


Gauhati University

Guwahati-781 014

Assam

Ph : (0361) 570647 (Res); 570294 (Off)





**Let no one say,
And say to your shame
That, all was beautiful here
Before you came."**

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